

The Effect of Cycling on the Cost of IPP Power

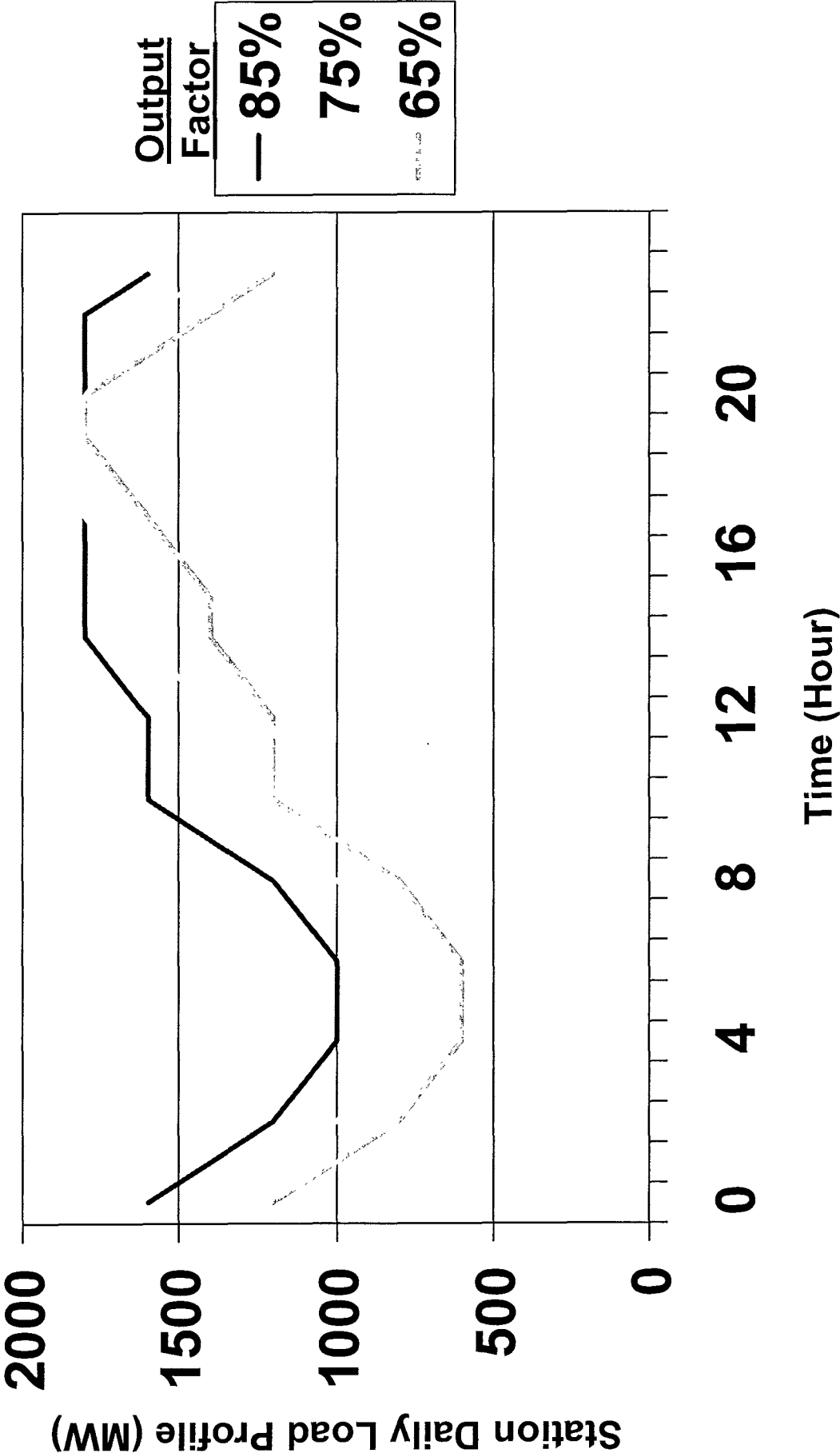
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Assumptions

- Fiscal Year 2008-09 IPA Annual Report used as economic baseline
 - 95% Output Factor
 - 2.7% EFOR
- Same amount of planned outages, five weeks per year for the station
- Replacement energy for forced outages
- Economic factors:
 - \$40/MWH for replacement energy
 - \$1.95/MBTU for fuel - constant

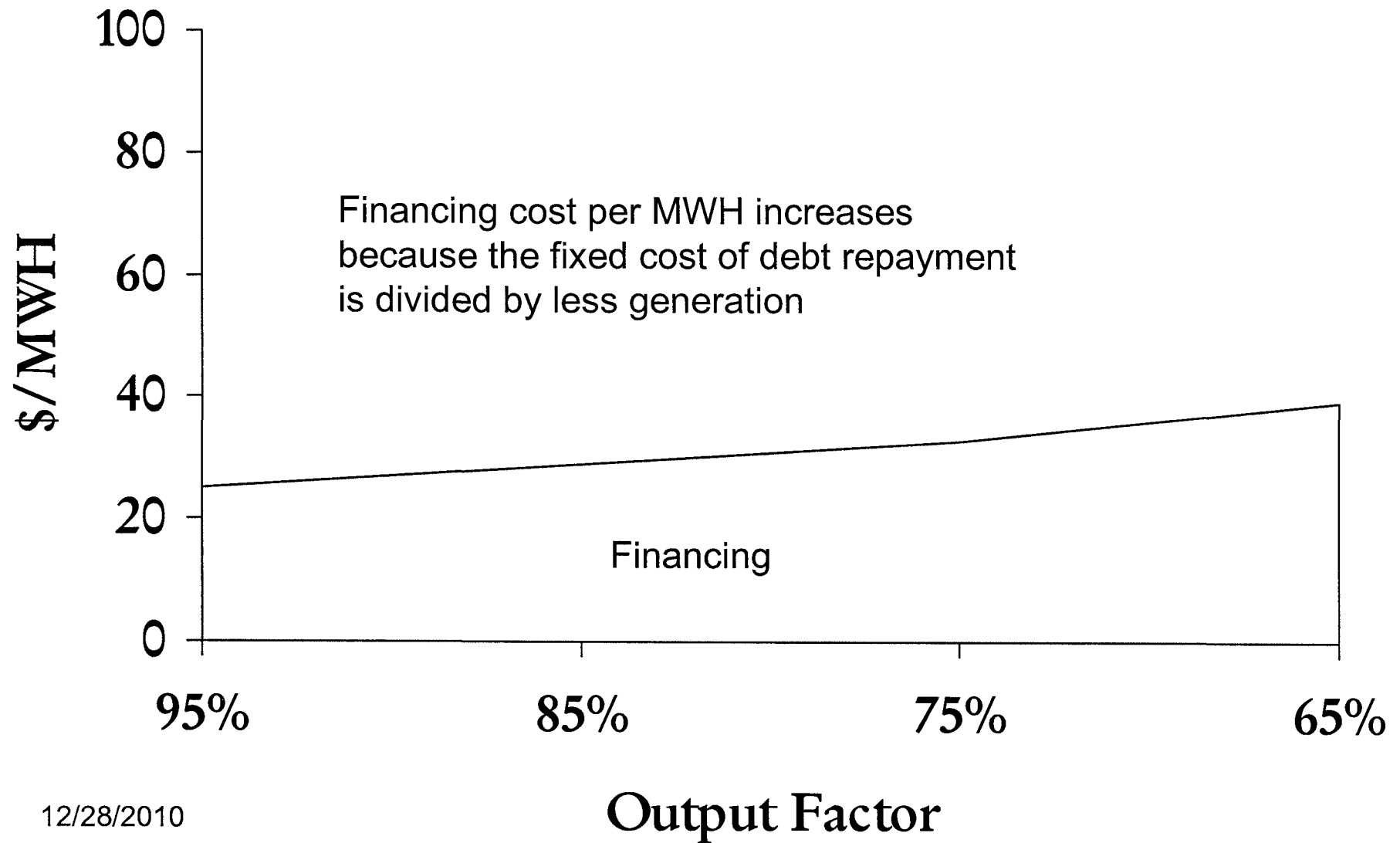
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Model Basis



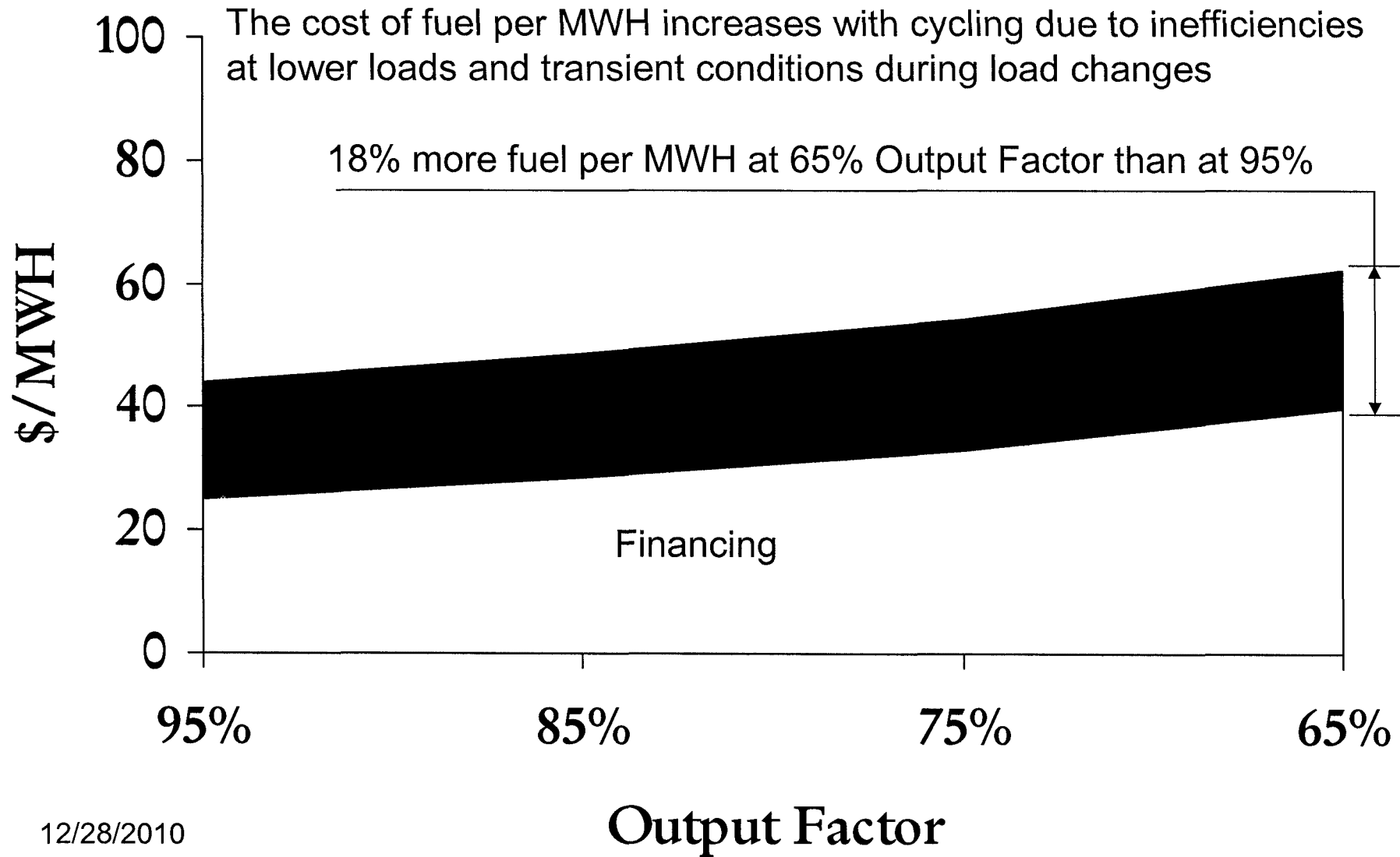
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Financing



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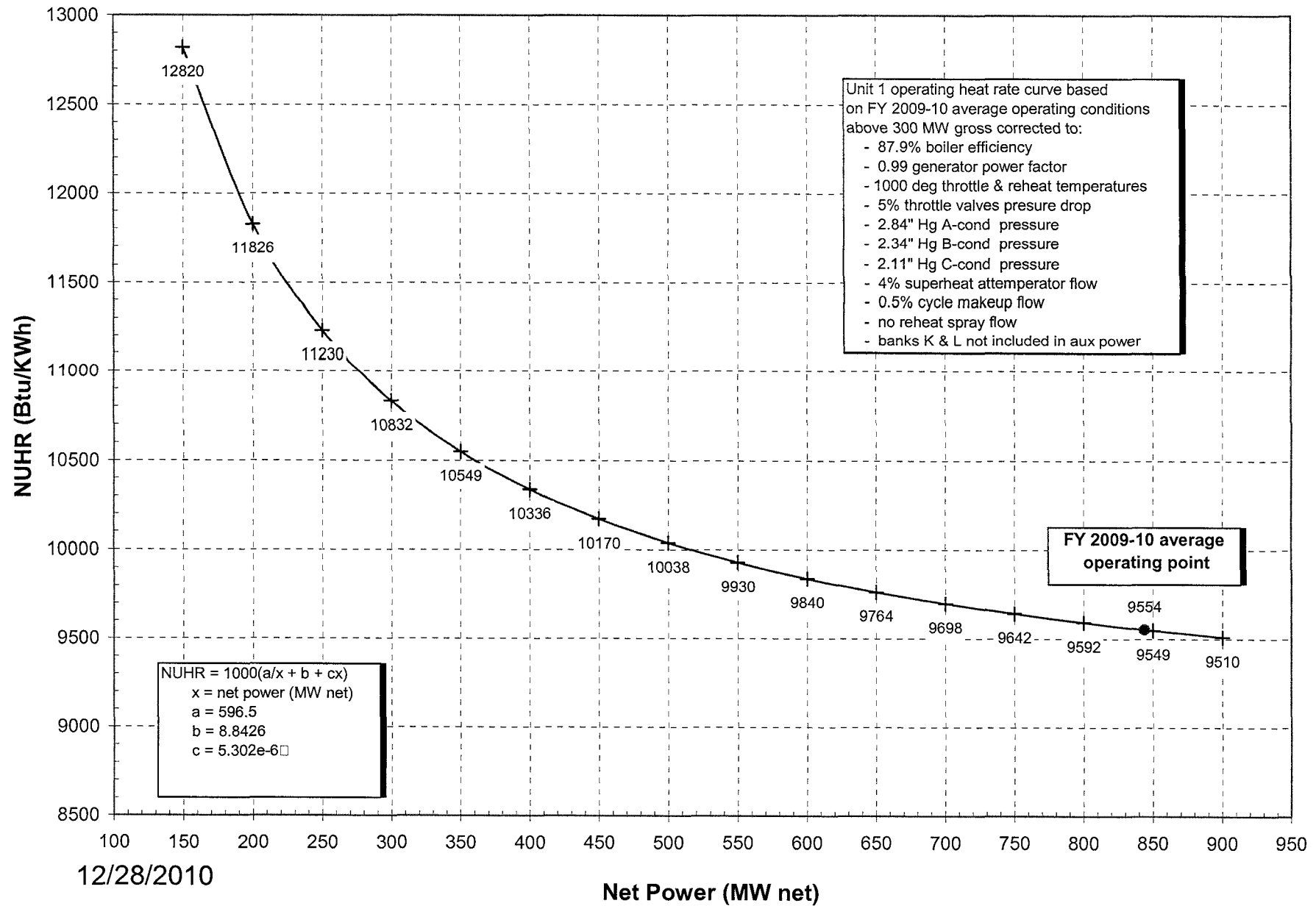
Fuel



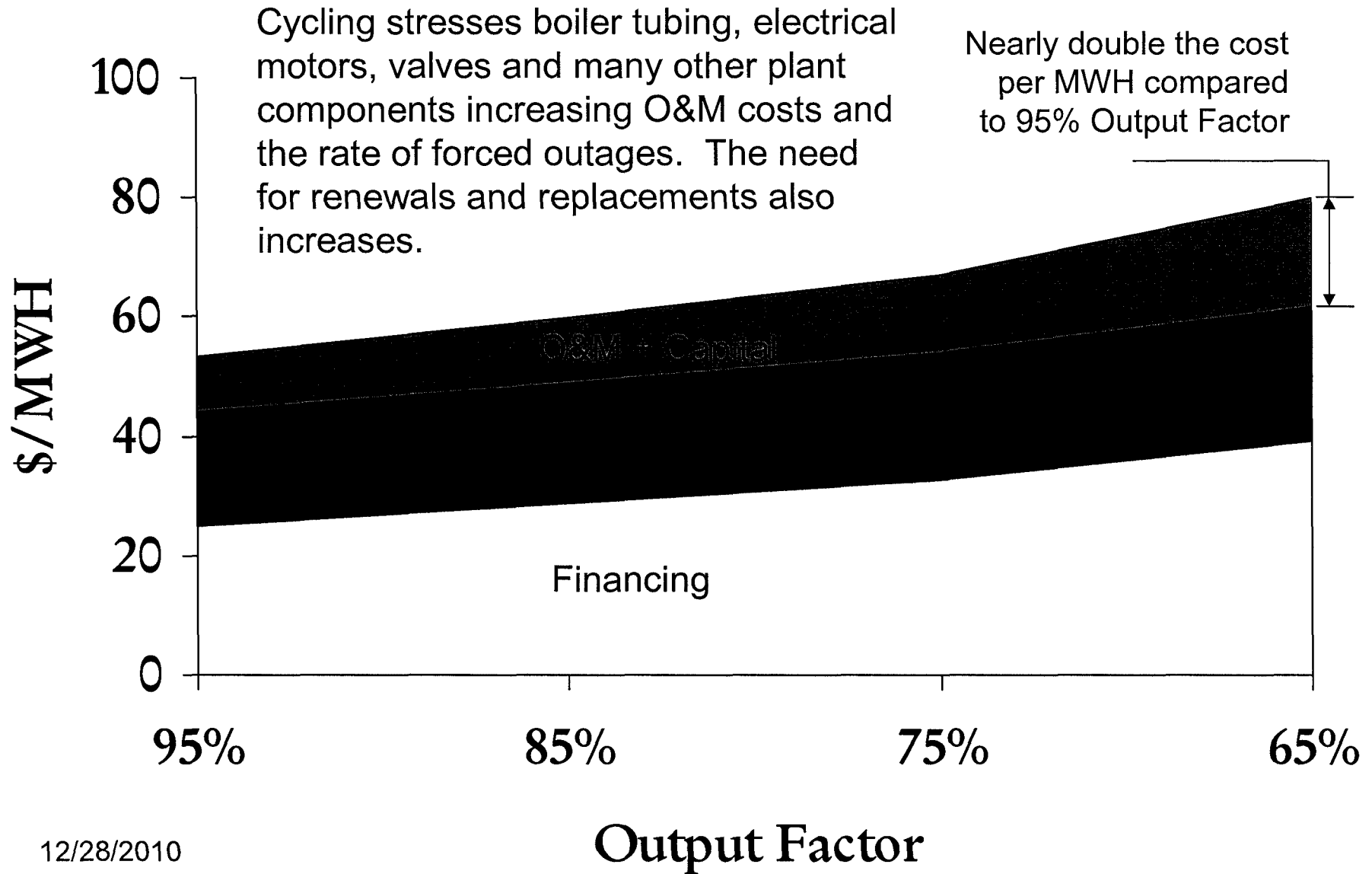
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INTERMOUNTAIN GENERATING STATION - Unit 1

2009-10 Operating Net Unit Heat Rate Curve

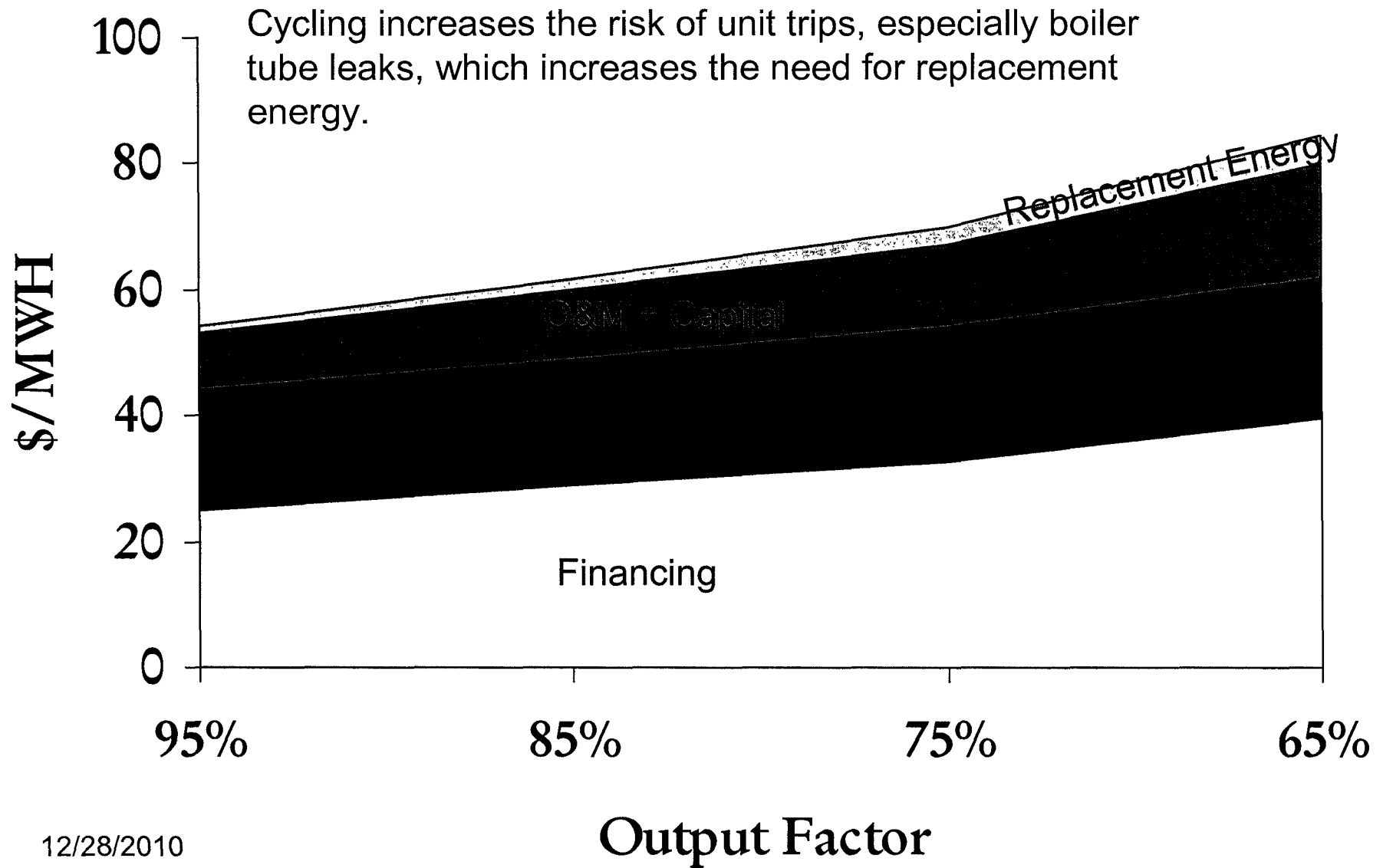


O&M + Capital



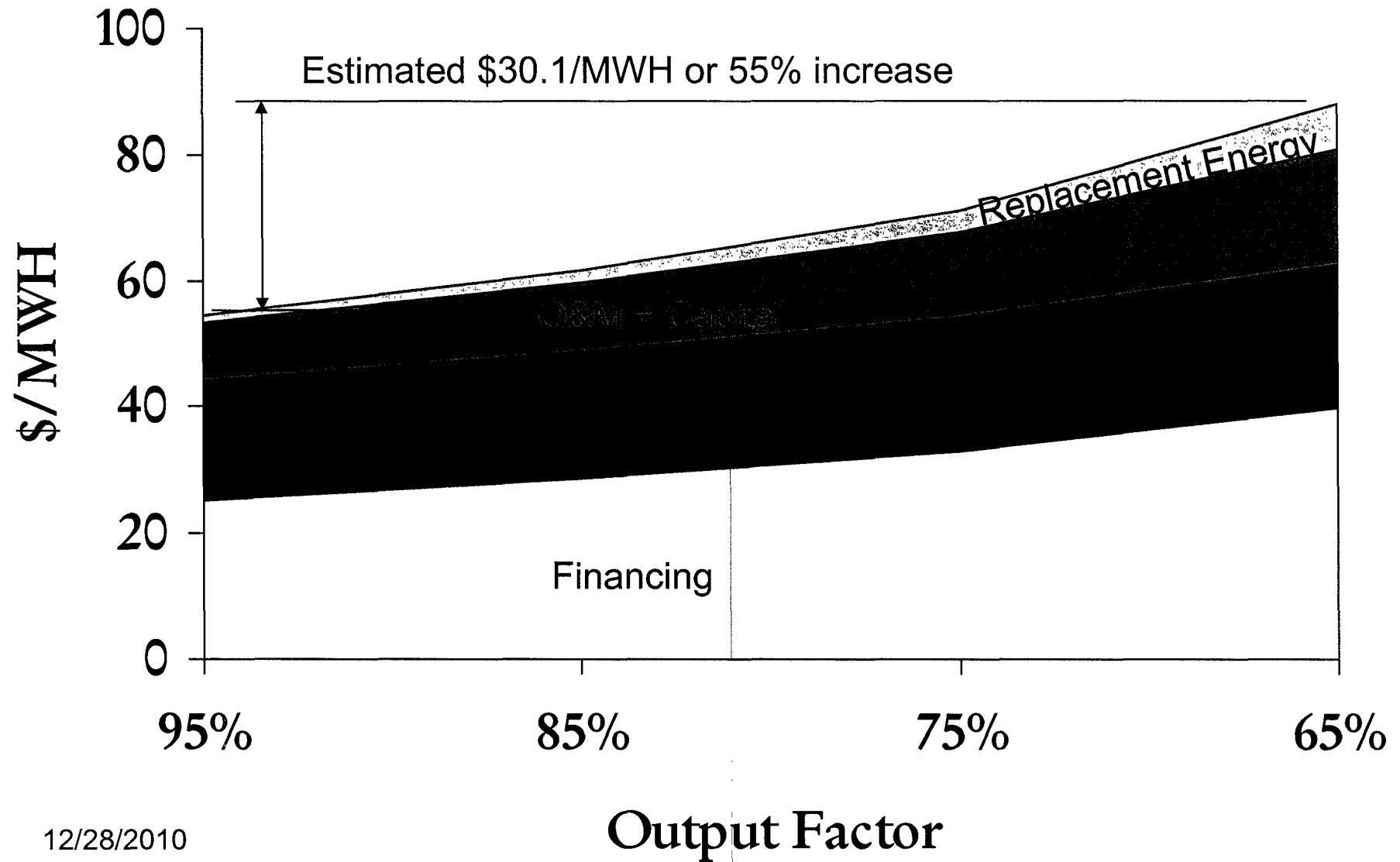
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Replacement Energy



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Total Cost of Power



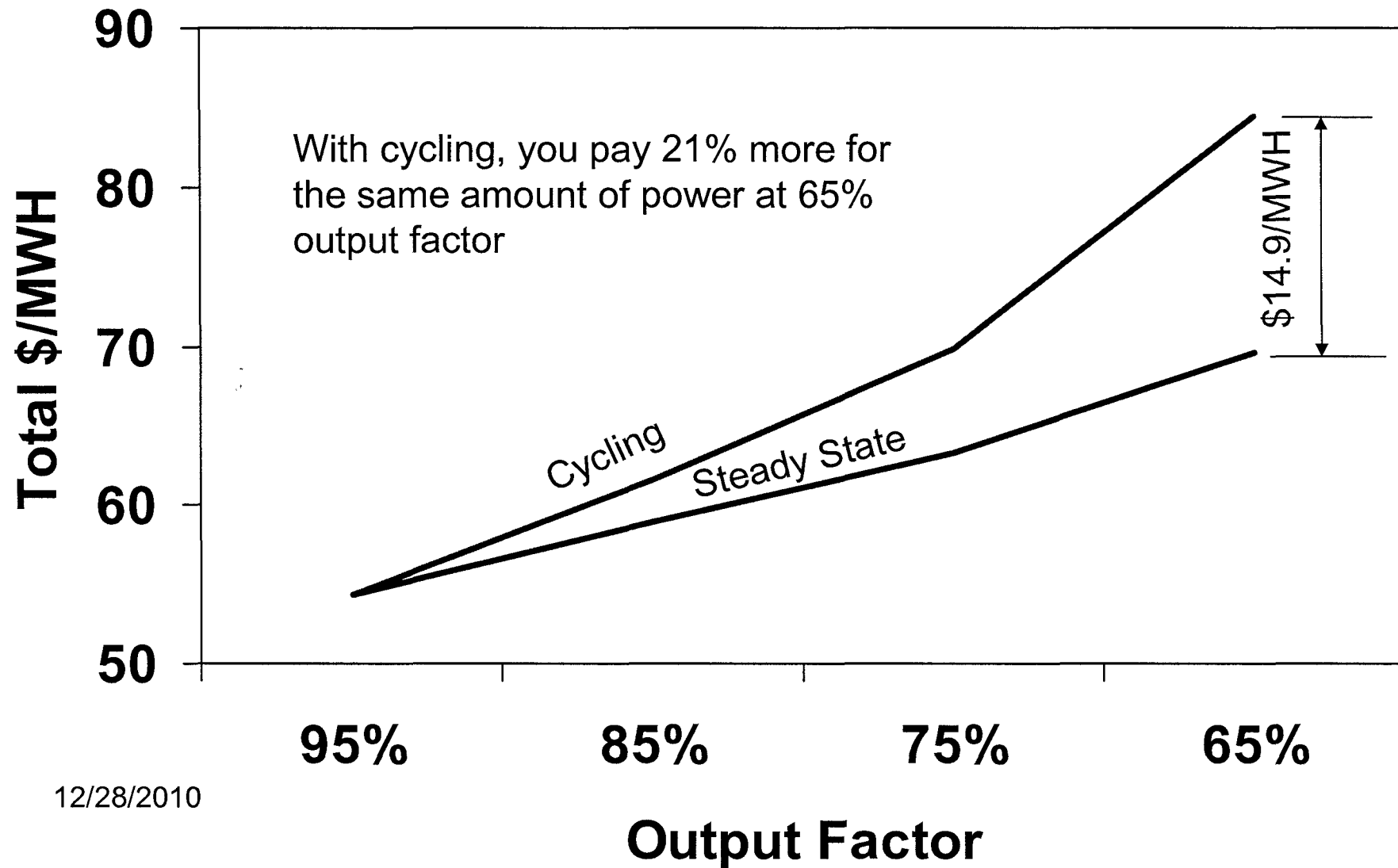
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Estimated Cost of Power \$/MWH for Various Output Factors

	95%	85%	75%	65%
Financing	25.1	28.9	32.8	39.4
Fuel	18.9	20.0	21.1	22.3
O&M + Capital	9.2	10.9	13.2	18.1
Replacement Energy	1.2	1.8	2.7	4.7
Total	54.4	61.6	69.8	84.5

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Cycling or Steady State?



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Cycling and Cost of Power

Other Considerations

- No permitting or environmental constraints that would interfere with cycling
- CO₂ emissions per MWH will increase:
 - 1950 tons/MWH at 95% Output Factor
 - 2300 tons/MWH at 65% Output Factor
- In order to develop more accurate cycling costs, specific cycling patterns would have to be developed and a complete engineering study would need to be performed.

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